

Title (en)

Red organic light emitting devices

Title (de)

Organisches rotes Licht emittierende Vorrichtungen

Title (fr)

Dispositifs organiques émetteurs de lumière rouge

Publication

EP 1311141 B1 20080102 (EN)

Application

EP 02025110 A 20021108

Priority

US 540401 A 20011108

Abstract (en)

[origin: EP1311141A1] An organic light emitting device comprising: (i) a first electrode; (ii) a region comprising a mixture of (1) a tertiary aromatic amine, (2) a metal oxinoid, and (3) a red emitting material represented by <CHEM> wherein X is a carbon C atom or a nitrogen N atom or optionally oxygen or sulfur; R1, R2 and R3 are each independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, aryl, and substituted aryl; M is a divalent, trivalent or tetravalent metal; (iii) a second electrode; (iv) an optional protective element coated on at least one of the first and second electrodes, wherein one of said first and second electrodes is a hole injection anode, and one of said electrodes is an electron injection cathode; and at least one of (v) a hole transport region situated between the anode and the region (ii), and wherein the hole transport region optionally includes a buffer layer; and (vi) an electron transport region situated between the cathode and the region (ii), and wherein said red emitting component is present in an amount of from 1 to about 40 weight percent based on total weights of components in region (ii). <IMAGE>

IPC 8 full level

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CPC (source: EP US)

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Cited by

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